

poured off as fast as it forms, so as to remain as short a time as possible in the caustic ley.

The only specimens which I have found not to give good results by the method above described, are those from Tampa Bay, Florida, and the infusorial marls from Barbadoes. In the masses from Tampa the lapidification is so complete, that the alkali destroys the shells before the lumps break up; and in the case of the Barbadoes marls the cementing material is calcareous, and requires a dilute acid for its removal. In applying the above process one caution is necessary, which is to thoroughly wash the shells with *water*, and not with acids, as the latter will cause the deposit of a portion of the dissolved silica and materially injure the beauty of the specimens. When the washings are no longer alkaline, the specimens may be thoroughly cleansed by acids, or by the chlorate process described above.—*Silliman's Journal*, May 1856, p. 356.

METEOROLOGICAL OBSERVATIONS FOR JUNE 1856.

Chiswick.—June 1. Hazy: cloudy. 2, 3. Very fine. 4. Very fine: cloudy: lightning at night. 5—7. Very fine. 8. Dull and cloudy. 9, 10. Very fine. 11. Cloudless. 12. Very fine: rain at night. 13. Rain. 14. Showery and boisterous. 15. Very fine: cloudy: clear and fine. 16. Very fine. 17. Showery. 18. Very fine: cloudy: rain. 19. Rain. 20. Showery. 21. Very fine: cloudy: rain. 22. Cloudy and fine. 23. Overcast. 24. Very fine: uniformly overcast. 25. Very fine. 26. Sultry. 27. Cloudless and hot. 28. Uniformly overcast: sultry: cold at night: range of temperature 45°. 29, 30. Clear and dry air.

Mean temperature of the month	58°·65
Mean temperature of June 1855	57·98
Mean temperature of June for the last thirty years	60·31
Average amount of rain in June	1·880 inch.

Boston.—June 1. Cloudy: rain A.M. and P.M. 2—6. Fine. 7. Cloudy. 8—11. Fine. 12. Cloudy: rain P.M. 13, 14. Cloudy: rain A.M. and P.M. 15. Cloudy. 16. Fine. 17. Rain A.M. 18. Cloudy. 19. Cloudy: rain A.M. 20. Cloudy. 21. Fine: rain P.M. 22. Cloudy: rain A.M. and P.M. 23, 24. Cloudy. 25. Fine. 26. Cloudy: thermometer 86° P.M. 27. Fine: thunder P.M. 28. Cloudy. 29. Fine. 30. Rain A.M. and P.M.

Sandwick Manse, Orkney.—June 1. Cloudy A.M.: drizzle P.M. 2. Drizzle A.M.: bright P.M. 3. Cloudy A.M. and P.M. 4. Cloudy A.M.: drops P.M. 5. Bright A.M.: cloudy P.M. 6. Cloudy A.M. and P.M. 7. Rain A.M.: bright P.M. 8. Clear A.M. and P.M. 9. Cloudy A.M.: drops, clear P.M. 10. Clear A.M.: showers P.M. 11. Rain A.M. and P.M. 12, 13. Bright A.M.: clear, fine P.M. 14. Cloudy A.M.: sleet-showers P.M. 15. Clear A.M.: cloudy P.M. 16. Showers A.M.: cloudy P.M. 17. Showers A.M. and P.M. 18. Bright A.M.: showers P.M. 19. Rain A.M.: bright P.M. 20. Cloudy A.M.: bright P.M. 21. Rain A.M.: bright P.M. 22. Bright A.M. and P.M. 23. Clear A.M.: cloudy P.M. 24. Fog A.M.: drizzle P.M. 25. Hazy A.M.: damp P.M. 26. Drops A.M.: rain, clear P.M. 27. Bright A.M.: damp P.M. 28. Damp A.M.: showers P.M. 29, 30. Clear A.M.: cloudy P.M.

Mean temperature of June for previous twenty-nine years ...	52°·76
Mean temperature of this month	51·47
Mean temperature of June 1855	52·23
Average quantity of rain in June for previous sixteen years ...	2·24 inches.